

LOOKING GOOD, FEELING GOOD: FROM THE INSIDE OUT – EXPLORING BONE, MUSCLE, AND SKIN		
Ohio Academic Standards for Science - Grade 6		
Lesson	Standard	Description
1, 2	1	Explain that many of the basic functions of organisms are carried out by or within cells and are similar in all organisms. (Life)
All lessons	2	Explain that multicellular organisms have a variety of specialized cells, tissues, organs and organ systems that perform specialized functions. (Life)
2, 3, 4, 5, 6, 7	4	Describe that chemical and physical changes occur all around us (e.g., in the human body, cooking and industry). (Physical)
Ohio Academic Standards for Science and Technology – Grade 7		
6	2	Describe how decisions to develop and use technologies often put environmental and economic concerns in direct competition with each other.
6, 7	3	Recognize that science can only answer some questions and technology can only solve some human problems.
Ohio Academic Standards for Scientific Inquiry – Grade 7		
2, 3, 6	1	Explain that variables and controls can affect the results of an investigation and that ideally one variable should be tested at a time; however it is not always possible to control all variables.
2, 3, 4, 5, 6	2	Identify simple independent and dependent variables.
2, 3, 6	3	Formulate and identify questions to guide scientific investigations that connect to science concepts and can be answered through scientific investigations.
2, 3, 6	4	Choose the appropriate tools and instruments and use relevant safety procedures to complete scientific investigations.
2, 3, 4, 5, 6	5	Analyze alternative scientific explanations and predictions and recognize that there may be more than one good way to interpret a given set of data.
2, 6	6	Identify faulty reasoning and statements that go beyond the evidence or misinterpret the evidence.
2, 3, 4, 5, 6	7	Use graphs, tables and charts to study physical phenomena and infer mathematical relationships between variables (e.g., speed and density).

Ohio Academic Standards for Scientific Ways of Knowing – Grade 7		
Lesson	Standard	Description
2, 6	3	Describe how the work of science requires a variety of human abilities and qualities that are helpful in daily life (e.g., reasoning, creativity, skepticism and openness).
Ohio Academic Standards for English Language Arts – Grade 7		
Lesson	Standard	Description
2, 3, 4, 5, 6	Vocabulary 1	Define the meaning of unknown words through context clues and the author's use of comparison, contrast, definition, restatement and example.
2, 3, 4, 5, 6	Reading Process 4	Summarize the information in texts, using key ideas, supporting details and referencing gaps or contradictions.
1, 2, 3, 4, 5, 6	Reading Applications 5	Analyze information found in maps, charts, tables, graphs, diagrams, cutaways and overlays.
2, 3, 4, 5, 6, 7	Writing Process 6	Organize writing with an effective and engaging introduction, body and a conclusion that summarizes, extends or elaborates on points or ideas in the writing.
2, 3, 4, 5, 6, 7	Writing Process 8	Group related ideas into paragraphs, including topic sentences following paragraph form, and maintain a consistent focus across paragraphs.
All lessons	Writing Process 12	Add and delete information and details to better elaborate on a stated central idea and to more effectively accomplish purpose
2, 3, 4, 5, 6, 7	Writing Applications 4	Write informational essays or reports, including research, that present a literal understanding of the topic, include specific facts, details and examples from multiple sources, and create an organizing structure appropriate to the purpose, audience and context.
2, 4, 5, 6	Research 1	Generate a topic, assigned or personal interest, and open-ended questions for research and develop a plan for gathering information.
2, 4, 5, 6	Research 5	Analyze and organize important information, and select appropriate sources to support central ideas, concepts and themes.
2, 3, 4, 5, 6, 7	Research 8	Use a variety of communication techniques, including oral, visual, written or multimedia reports, to present information that supports a clear position with organized and relevant evidence about the topic or research question.

Ohio Academic Standards for Mathematics – Grade 7		
Lesson	Standard	Description
2, 4, 5, 6	Number, Number Sense, and Operations 7	Solve problems using the appropriate form of a rational number (fraction, decimal or percent).
6	Measurement 4	Solve problems involving proportional relationships and scale factors; e.g., scale models that require unit conversions within the same measurement system.
2, 4, 5, 6	Measurement 5	Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.
2, 4, 5, 6	Patterns, Functions and Algebra 1	Represent and analyze patterns, rules and functions with words, tables, graphs and simple variable expressions.
6	Patterns, Functions and Algebra 8	Use formulas in problem-solving situations.
2, 4, 5, 6	Patterns, Functions and Algebra 10	Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.
2, 4, 5, 6	Data Analysis and Probability 8	Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predicted results, and explain differences.